

CITY OF RIPON.

SANITARY, BUILDING & HOUSING COMMITTEE.

Chairman :

MR. ALDERMAN FENNELL.

Members :

Mr. Councillor Boddy,
„ „ Kearsley,
„ „ Hargrave,
„ „ Veitch,
„ „ Clay.

Medical Officer of Health :

DR. W. D. JEFFERSON.

Meat Inspector :

J. R. SIMPSON, M.R.C.V.S.

Sanitary & Housing Inspector :

J. H. HILL, Cert. Royal San. Inst., M.S.I.A.



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CITY OF RIPON.

REPORT
OF THE MEDICAL OFFICER OF HEALTH
For the Year Ending December 31st, 1913.

RIPON,
FEBRUARY, 1914.

Mr. Mayor and Gentlemen,

I have the honour to present to you my Third Annual Report of the Vital Statistics and Sanitary Condition of the City of Ripon for the year ending 31st of December, 1913.

I have received and filled up the usual returns from the Local Government Board and West Riding County Council, copies of which are annexed hereunto.

I have shown in these returns the deaths in Public Institutions apart from the rest of the City, and also the number of deaths occurring in the City of persons not belonging thereto. A summary of these returns gives the following particulars.

BIRTHS.

During 1913 the number of births registered was 148, of which 80 were Males and 68 Females, giving a Birth-rate of 18 per thousand, as compared with 154 in 1912, 163 in 1911, 173 in 1910, and 184 in 1909, which shows a further increased decline of the Birth-rate. Of the above 13 were illegitimate, as compared with 12 for 1912, 14 for 1911, and 13 for 1910. The Birth-rate for 1912 England and Wales was 23'8 (lowest on record), and for 1911 24'4 per thousand.

DEATHS.

The total number of Deaths registered in the City in 1913 was 111 as compared with 107 in 1912. Of the above deaths 23 occurred in the Union Infirmary and Cottage Hospital.

The above figures give a death-rate for the whole City of 13·5 per 1000, or exclusive of Public Institutions, 10·7 per 1000.

The death-rate for the whole City in 1912 was 13·1 per 1000, in 1911 was 16·5 per 1000, in 1910 it was 13 per 1000 (on the over estimated population).

INFANTILE MORTALITY.

During the year there were 14 deaths registered of Infants under 1 year of age, giving a rate of 94·5 per 1000 of the Births, in England and Wales 1912, 95·0 per 1000.

MORTALITY AT GROUPS OF AGES.

Under 1 week, Premature Births	...	...	4
From 1 — 2 weeks ...	...	...	1
„ 2 — 3 „ ...	...	...	2
„ 3 — 4 „ ...	...	...	1
„ 1 — 3 months	...	...	1
„ 3 — 6 „	...	...	2
„ 6 — 9 „	...	...	1
„ 9 — 12 „	...	...	2

MORTALITY AT GROUPS OF AGES.

Under 1 Year	...	...	14
From 1 — 5 years	...	...	4
„ 5 — 15 „	...	...	2
„ 15 — 25 „	...	...	2
„ 25 — 65 „	...	...	31
„ 65 and upwards	...	...	58

15 From Senile Decay. There were 7 inquests.

ZYMOTIC DISEASES.

There has been one death from Zymotic Diseases in 1913, viz. :—one of Whooping Cough. This gives a death-rate of '013 per 1000. The Zymotic death-rate for England and Wales in 1912 was 0·99, and 1911 was 1·88 per 1000.

OTHER DISEASES.

During the past year there have been 4 deaths from Phthisis, 1 from other forms of Tubercular Disease, 8 from Pneumonia, 13 from Bronchitis, 14 from Malignant Disease, 15 from Senile Decay, and the rest from various causes as shown on Table III.

INFECTIOUS DISEASES,

There have been 13 cases of Infectious Disease notified during the past year, as compared with 20 in 1912, and 34 in 1911, 7 of Scarlet Fever (all mild), 2 of Diphtheria, 1 of Enteric Fever (Typhoid), 2 of Erysipelas, and 1 of Puerperal Fever. Under the Tuberculosis Regulations Act, 1911, there have been 11 notifications.

RECORD OF DISEASES, 1899-1913.

Year.	Scarlet Fever	Enteric Fever.	Diphtheria.	Erysipelas.	Membranous Croup.	Smallpox.	Puerperal Fever.	Total.
1899	13	6	3	6	...	...	...	28
1900	59	9	6	5	...	...	...	79
1901	127	9	2	7	...	...	...	145
1902	93	9	...	6	...	...	...	108
1903	7	1	34	12	1	...	...	55
1904	3	1	48	8	...	1	1	62
1905	4	2	2	8	...	...	...	16
1906	8	1	2	8	...	...	...	19
1907	12	...	4	5	...	...	...	21
1908	15	2	7	...	...	...	...	24
1909	8	1	4	5	...	...	...	18
1910	10	3	5	2	...	...	...	20
1911	17	5	4	3	...	...	...	29
1912	7	2	8	3	...	...	...	20
1913	7	1	2	2	...	...	1	13

SANITARY WORK.

The last 2 years I have recommended for the consideration of the Sanitary Committee 3 principal defects, which are made mention of in the report of Dr. Kaye, Medical Officer of Health for the West Riding County Council.

1. The paving of yards with impervious materials.
2. The abolition of all open privies.
3. The provision of sinks with trapped waste pipes.

The past year has been marked by great activity of the Corporation, their Sanitary Committee and Officers, and the following gives complete details of the work, as set forth in the Sanitary Inspector's Annual Report to the Council.

Town Hall,
Ripon.

INSPECTOR OF NUISANCES ANNUAL REPORT FOR THE YEAR 1913.

To the Chairman and Members of the Sanitary Committee.

Gentlemen,

I have pleasure in presenting to you my Second Annual Report, giving as far as possible a detailed account of the sanitary improvements carried out, nuisances abated, notices served, and inspections made during the year.

Under the Housing of District Regulations, 88 houses have been inspected, and the nuisances found to exist have been abated, or the work is in hand.

The following is a summary of nuisances abated:—

Privy middens abolished ...	...	59
Pan closets abolished ...	...	3
Insanitary ashpits abolished	...	3

Defective gullies abolished	...	3
Water closets provided	...	66
Galvanised dust bins provided	...	66
Pan closets provided	...	1
Gully traps provided	...	3
Choked drains opened and cleansed	...	30
Defective drains taken up and new ones relaid	...	31
Yards paved	...	28
Yards part paved	...	38
Defective water closets made good	...	6
Defective pan closets renewed	...	9
Defective eavespouting repaired	...	55
Defective fall pipes repaired	...	18
Fall pipes disconnected from the drains		13
Defective roofs repaired	...	36
New dust bins provided in lieu of defective ones	...	36
W.C. flush tanks repaired	...	5
Defective sink wastes repaired or renewed	...	3
Waste pipes disconnected from the drain	...	6
Defective or insanitary sinks renewed		5
New sinks with trapped waste pipes provided	...	24
Water supply provided over sinks	...	24
Defective living room floors repaired or renewed	...	37
New windows provided for ventilation		8
Disused wells filled in	...	3
Dampness due to adjoining earth	...	14
Nuisance from the keeping of animals		14
Accumulations of manure, refuse, &c.		36
Overcrowding	...	5
Miscellaneous	...	32

In connection with nuisances registered, 106 preliminary notices and 69 legal notices have been served, 209 inspections have been made (other than the above), and 402 revisits have been made where work has been in progress.

During the year 54 complaints have been received, all of which have been attended to.

INFECTIOUS DISEASES.

In each case inspection has been made of the premises to ascertain the condition of the sanitary arrangements, and if found defective notice was served to rectify the same. The premises were disinfected, following the removal of the patient to hospital.

A letter in each case has been sent to the head master of the school, notifying the existence of disease, and the exclusion of contacts from school.

HOUSING ACT, 1890 TO 1909.

Closing orders have been served upon the owners of numbers 1 to 10 (inclusive), Queen's Head Yard, No. 8, Stonebridgeway, numbers 7, 9, and 9a, Water Skellgate, and No. 46, Allhallowgate.

A demolition order has been served upon the owner of 46, Allhallowgate, and the house has since been abolished.

Determining orders have been issued to owners of property numbers 10 to 15 (inclusive), Water Skellgate, and numbers 1 to 6, Heath's Court.

The houses 1, 2, 3, & 4, High St. Agnesgate, have been converted into the present museum, and one house, No. 32, Bondgate Green Lane, has been taken down, and the site used for extension for the Navigation Inn, Canal Road.

TOWN PLANNING.

During the past year the Corporation have had under consideration a scheme of Town Planning for the greater part of the City, but owing to the magnitude of the subject the Council postponed the question for the present, but it is expected that the subject will be taken up again next year.

SALE OF FOOD AND DRUGS ACT, 1875 TO 1907.

During the past year the following samples of food have been purchased and submitted to the County Analyst.

Nature of sample.	Number.	Adulterated.	Result.
Milk	7	1	cautioned.
Skimmed Milk	1	0	
Butter	2	0	
Coffee	1	1	cautioned.

Two samples of water have been taken and submitted for analysis, one from a well in Bondgate, and the other from a well at the rear of Hillshaw Nurseries, and the latter was certified to be polluted by sewage, the owner was interviewed regarding the same, and the well closed.

COMMON LODGING HOUSES.

There are three registered lodging houses in the City, and during the year 120 inspections have been made. In four cases letters have been sent to the lodging house keepers for breach of bye-laws, viz., separation of sexes 1, dirty rooms and yards 2, limewashing 1. In each case the necessary work was carried out.

COWSHEDS AND MILKSHOPS.

There are 18 registered cowkeepers, 17 of which sell milk in the City, there are also 14 registered purveyors of milk (other than the above). 48 inspections have been made during the year, and 11 notices have been given to limewash and cleanse the buildings.

FACTORIES AND WORKSHOPS.

There are 68 registered workshops in the City, other than workshop bakehouses.

The following is a list of workshops registered :—

Trade.	Number registered.	Inspections made.
Bakehouses	11	22
Dressmakers and milliners	16	53
Tailors	7	
Boot and shoe repairers	8	
Laundries	3	
Cabinet Makers	10	
Plumbers, &c.	8	
Others	16	
	79	75

Seventeen nuisances have been registered in connection with the above, one of which was notified by H.M. Inspector of Factories.

I remain, gentlemen,

Your obedient servant,

J. H. HILL,

Sanitary Inspector.

INFECTIOUS DISEASE AND DISINFECTION.

Where a case of infectious disease has been notified the premises have been inspected to ascertain the sanitary conditions, and the premises have been immediately disinfected following removal of the patient, and the contacts have been excluded from school for the quarantine period.

FACTORY AND WORKSHOPS ACT, 1901.

17 defects have been found in connection with Factories and Workshops, 5 in connection with unsuitable or defective sanitary accommodation, 1 for want of ventilation, 7 for dirty workshops, 3 for breach of sanitary requirements in bakehouses, and 1 for other nuisances.

These have all been remedied, and the requirements of the above Act have been complied with in the other premises with the exception of 1, and this is in hand.

COWSHEDS.

I have with the Sanitary Inspector visited the Cowsheds and Dairies throughout the City, and found them all in a clean and sanitary condition.

SLAUGHTER HOUSES.

In company with Mr. Simpson, I have visited the Slaughter Houses, and they have been kept cleaner and oftener whitewashed than previously. I do not, at present, favour a public abattoir, until compelled to do so by the Government.

I have attended the meetings of the Sanitary Committee, and have when required, given advice on matters affecting the public health.

I have the honour to remain, gentlemen,

Your obedient servant,

W. D. JEFFERSON,

Medical Officer of Health.

To the Chairman and Members
of the Sanitary Committee.

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

1—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Prosecutions. (4)
Factories (including Factory Laundries) ...	3	...	...
Workshops (including Workshop Laundries) ...	72	13	...
Total	75	13	...

2—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of prosecu- tions.
	Found	Reme- died.	Referred to H.M. Inspect'r	
(1)	(2)	(3)	(4)	(5)
<i>Nuisances under the Public Health Acts :—*</i>				
Want of cleanliness	7	7	...	...
Want of ventilation	1	1	...	...
Other nuisances	1	1	...	...
Sanitary {insufficient	2	1	...	...
accommodation {unsuitable or defective	2	2	...	...
	1	1	...	...
<i>Offences under the Factory and Work- shop Acts :—</i>				
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) ...	3	3	...	...
Total	17	16	...	...

*Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

3—HOMEWORK.—Outworkers' Lists, Section 107.

Nature of Work. (1)	Lists received from Em- ployers. Sending twice in the year.		
	Lists. (2)	Outworkers.	
		Con- tractors. (3)	Work- men. (4)
Wearing Apparel—			
Boot Repairer 	2	...	2
Total ...	2	...	2

4—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year. (1)						Number. (2)
Important classes of work- shops, such as workshop bakehouses, may be enu- merated here.	Bakehouses	...	...	...	...	11
	Dressmakers and Milliners	...	...	...	...	16
	Tailors	...	...	...	...	7
	Boot and Shoe Repairers	...	...	...	...	8
	Laundries	...	...	...	...	3
	Cabinet Makers	...	...	...	...	10
	Plumbers, &c.	...	...	...	...	8
	Others	...	...	...	...	16
Total number of Workshops on Register						79

5—OTHER MATTERS.

Class. (1)	Number. (2)
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Acts (s 133, 1901)	1
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Acts (s. 5, 1901)	1
Reports (of action taken) sent to H.M. Inspector	

TABLE I.

Vital Statistics of Whole District during 1913 and previous Years.

Year.	Population estimated to middle of each year.	Births.			Total Deaths Registered in the District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 year of age		At all ages.	
			Number	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1908	8218	178	178	...	108	13·1	...	...	13	73·03	...	...
1909	8218	184	184	...	126	15·3	...	...	15	81·5	...	...
1910	8218	173	173	...	109	13·2	...	...	21	121·38	...	...
1911	8218	163	163	19·6	137	16·5	1	...	28	170·0	136	16·5
1912	8218	154	154	18·6	107	13·1	1	2	8	51·8	108	13·1
1913	8218	148	147	18·0	111	13·5	9	8	14	94·5	110	13·5

TABLE II.
CASES OF INFECTIOUS DISEASE NOTIFIED
DURING THE YEAR 1913.

NOTIFIABLE DISEASES.	Number of Cases Notified.								Total Cases removed to Hospital.
	At all Ages.	At Ages--Years.							
		Under 1.	1 to 5 years.	5 to 15 years.	15 to 25 years.	25 to 45 years.	45 to 65 years.	65 and upwards.	
Diphtheria (including Membranous croup)	2	...	...	1	1	...	...	...	...
Erysipelas	2	...	...	...	...	...	2	...	...
Scarlet Fever	7	...	1	5	1	...	...	...	5
Enteric Fever	1	...	...	...	1	...	...	...	1
Puerperal Fever	1	...	...	...	...	1	...	...	...
Pulmonary Tuberculosis	4	...	...	...	1	1	2	...	...
Other forms of Tuberculosis	7	...	...	1	3	2	1	...	...
Totals	24	...	1	7	7	4	5	...	6

TABLE III.

CAUSES OF, AND AGES AT DEATH DURING THE YEAR 1913.

CAUSES OF DEATH.	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District (a.)								
	All Ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.
Whooping Cough ...	1	1	...	...	...	...	...	...	...
Influenza ...	3	...	...	...	...	...	...	2	1
Phthisis (Pulmonary Tuberculosis)	4	...	..	...	...	...	2	1	1
Tuberculous Meningitis ...	1	...	...	1	...	...	...	...	...
Cancer, malignant disease	4	...	...	...	...	...	...	1	3
Meningitis ...	1	...	...	...	1	...	...	...	...
Organic Heart Disease ...	19	...	...	...	...	...	4	4	11
Bronchitis ...	13	1	...	...	...	...	...	3	9
Pneumonia (all forms) ...	8	...	2	...	1	...	...	3	2
Other diseases of respira- tory organs ...	2	...	...	...	...	...	...	1	1
Diarrhœa and Enteritis	1	1	...	...	...	...	...	...	...
Appendicitis and Typhlitis	1	...	...	...	...	...	...	1	...
Nephritis & Bright's Disease ...	3	...	...	...	...	..	2	...	1
Congenital Debility and Malformation, including Premature Birth ...	6	6	...	...	...	...	...	...	...
Violent Deaths, excluding Suicide ...	3	...	...	...	...	1	...	1	1
Suicide ...	1	...	...	...	...	...	...	...	1
Other Defined Diseases ...	39	5	1	...	...	...	2	4	27
Diseases ill defined or un- known ...	1	...	...	...	...	1	...	...	...
All causes ...	111	14	3	1	2	2	10	21	58

TABLE IV.
 INFANTILE MORTALITY DURING THE YEAR 1913.
 Nett Deaths from stated causes at various Ages under 1 Year of
 Age.

Cause of Death.				Under 1 week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months,	Total Deaths under 1 year.
Whooping Cough	...	...	...	...	...	...	1	...	...	...	...	1
Convulsions	...	...	...	1	...	...	...	...	2	...	...	3
Bronchitis	...	...	...	...	...	...	...	...	...	...	1	1
Diarrhœa	...	...	...	...	...	...	...	...	...	1	...	1
Premature Birth	...	...	...	3	1	2	...	...	...	...	...	6
Atrophy, Debility and Marasmus	...	...	...	...	...	...	...	1	...	...	1	2
Totals	...	...	...	4	1	2	1	1	2	1	2	14

Nett Births in the year—legitimate, 135 ; illegitimate, 13.

Nett Deaths in the year of infants—14.

CITY OF RIPON.

Population (1911)	...	Males	...	...	...	3656	
	...	Females	...	...	...	4562	
							8218
Inhabited Houses (1911)	...		...	...	...	...	1983
Uninhabited „ „	...		...	...	...	...	157
Houses Building	...		...	...	...	...	Nil
Area of Statute Acres	...		...	...	...	...	1792
Persons to an Acre	...		...	...	...	...	4'6
Total Deaths for 1913...	...		...	...	...	...	111
Deaths from Zymotic Diseases	...		...	...	...	...	1
Total Death-rate per 1000	...		...	...	...	...	13'5
Births : 80 Males, 68 Females	...		...	...	...	...	148
Total Birth-rate per 1000	...		...	...	...	...	18

The first Medical Officer's Report was issued in 1878.

Year.	Births.	Deaths in Public Institutions.	Total Deaths.	Death-rate exclusive of Public Institutions.	Total Death-rate	Deaths from Zymotic Diseases.	Deaths under one year.	Deaths over 65 years.
1878	223	25	170	21'3	24'9	31	36	58
1879	242	20	180	23'5	26'4	12	38	60
1880	222	18	163	21'3	23'9	12	39	55
1881	219	13	131	16'1	17'9	9	23	52
1882	229	18	137	16'1	18'3	6	27	54
1883	217	26	136	14'6	18'1	6	23	51
1884	243	18	147	17'1	19'4	4	35	55
1885	200	14	118	13'7	15'5	9	11	55
1886	227	12	157	19'1	20'7	21	29	66
1887	229	16	166	19'6	21'7	8	37	62
1888	223	16	145	16'8	18'9	21	38	39
1889	232	20	143	16	18'7	9	22	57
1890	207	18	129	15'3	17'1	10	25	52
1891	178	16	154	18'5	20'5	4	26	66
1892	189	26	176	19'5	23	6	22	81
1893	184	14	166	20	22'1	26	25	57
1894	186	13	140	17	18'5	6	31	50
1895	208	8	122	15	16'1	8	25	43
1896	196	16	132	15'2	17'4	17	25	60
1897	187	14	117	13'5	15'3	3	14	60
1898	192	16	148	17'2	19'3	11	26	68
1899	194	16	135	14	14'4	12	34	44
1900	177	18	146	14'2	15'1	9	20	64
1901	204	16	143	16'5	17'3	9	21	50
1902	164	14	124	13'09	14'5	5	22	42
1903	198	27	145	13'8	16'1	5	18	45
1904	172	24	126	12'3	14'8	8	21	38
1905	189	17	139	13'9	15'4	8	34	48
1906	174	21	147	14'2	15'8	18	26	53
1907	190	23	124	11'4	12'8	9	18	46
1908	178	19	108	9'7	11'3	5	13	51
1909	184	22	126	12'2	13'5	6	15	49
1910	173	16	119	11'6	13	6	21	51
1911	163	20	137	14'19	16'5	3	28	56
1912	154	23	107	10'22	13	2	8	46
1913	148	23	111	10'8	13'5	1	14	58

RIPON as a SPA & HEALTH RESORT



THE ancient City of Ripon, one of the oldest in England, covers an attractive site near to the confluence of the Ure, the Skell and the Laver, three West Riding streams renowned for their trout and grayling. It is 29½ miles from Leeds, 35 from Bradford, 11 from Harrogate, 23½ from

York, 30 from Darlington, 102 from Liverpool, 70 from Newcastle-on-Tyne, and 60 from

Scarborough. Its grand old Cathedral Church, dedicated to SS. Peter and Wilfrid, comprises examples of the architectural styles that prevailed from the Norman to the Perpendicular period, but is chiefly distinguished by its fine early English and Decorated work. Within three miles of the Market Place is Studley Royal, the noble demesne of the Marquess of Ripon, through which visitors approach the beautiful and extensive ruins of Fountains Abbey, and the grand Jacobean mansion of Fountains Hall. Other attractions are Hackfall, a charming bit of glen scenery, in the richly wooded Ure valley, the Dallow Gill and Lumley Moors, Brimham Rocks, the interesting churches of Tanfield, Kirkby Malzeard, Kirkby on the Moor, Aldborough, Topcliffe and Masham; the moated, castellated manor house of Markenfield Hall, the remains of Knaresborough Castle, the Roman Station of Aldborough and Boroughbridge.

It is in this old City that the ancient customs of sounding the Mayor's Horn at the Market Cross, and ringing the Curfew Bell from the Cathedral Tower, at nine o'clock every evening, are still upheld.

Ripon enjoys the advantages of direct railway communication with all parts of the United Kingdom. Excellent Services of through expresses travel thither from London, Liverpool, Manchester, Huddersfield, Leeds, Sunderland and Newcastle. Passengers from Plymouth, Bristol, Cardiff, Birmingham and Sheffield, can exchange

carriages at Leeds. Ripon is now placed within a journey of 4½ hours from London, 2½ hours from Hull, 55 minutes from Leeds, 65 minutes from York, 2½ hours from Sunderland, 2 hours from Newcastle, 4½ hours from Edinburgh, and 6 hours from Glasgow.

The City is well wooded and watered, the subsoil is principally gravel and red sand, and the climate mild and very salubrious.

The City is remarkably healthy, the death-rate being low. Nearly one-half of the deaths last year were of persons aged 65 years and upwards.

The Sewerage Scheme is one of the most complete in the Kingdom. The Water and Gas Works are the property of the Corporation.

There is a first grade Grammar School, established in 1555, re-organised under a new scheme in 1872, and again in 1909. Also an excellent Secondary School for Girls, established under the auspices of the West Riding County Council.

There are excellent Clubs and Newsrooms, Cricket, Football, Golf, Bowls, Lawn Tennis and Hockey Clubs. First-class Fishing and Hunting, also Boating and facilities for River Bathing.

As a Rural Holiday Centre for Walks, Drives, Cycling, and Railway Excursions through a well watered and picturesque countryside, Ripon deserves warm commendation.

The Corporation of Ripon are utilising the advantages provided by nature, by developing a Spa on popular lines as an addition to the attractions of the old-world Cathedral City. The sulphur spring, situated at Aldfield, four miles from the City, has been known and utilised for many generations, and in 1900 the water was conveyed in pipes to Ripon without any deterioration in quality. Of this water the great analyst, the late Sir Thomas Stevenson, M.D., said, "This is an excellent mild and aperient water of great organic purity . . . and one that will prove highly beneficial to those taking it under medical advice." And the eminent authority, Sir Hermann Weber, M.D., says, "Under judicious medical advice the Aldfield Springs can be advantageously used for a great variety of diseases."

Apartments are to be had in the villages and at the Farm Houses at a convenient distance from Ripon, as well as in the City, and there is an excellent Hydro close to the Spa Baths.

Information relating to any of the subjects mentioned in this leaflet can be obtained at the Town Clerk's Office, Town Hall, Ripon.

RIPON SPA WATER.

Extract from the Report of Professor (now Sir Thomas) Stevenson, Guys Hospital, London.

"The following are my analytical results, expressed for convenience in grains per gallon (70,000 grains), and also in parts per 100,000. The Saline constituents are arranged in the manner in which they may be supposed to be combined. I have given in an appendix the constituents as actually determined by analysis, these are of value for reference in case further analysis should hereafter be made.

Specific Gravity of the water at 60° F. 1·0032.

Temperature of Spring 53° F. (air tem. 70° F.)

	In grains per gallon.	In parts per 100,000.
Strontium Sulphate...	0·76	1·09
Calcium Sulphate ...	22·10	31·57
Calcium Carbonate ...	9·84	14·06
Calcium Chloride ...	6·48	9·26
Magnesium Chloride	30·54	43·62
Magnesium Bromide	0·13	0·19
Magnesium Iodide ...	Traces	Traces
Potassium Chloride...	4·37	6·24
Sodium Sulphate ...	5·51	7·73
Sodium Chloride ...	195·27	278·95
Lithium Chloride ...	0·87	1·24
Ferrous Phosphate ...	0·06	0·09
Ammonium Carbonate	0·23	0·33
Silica ...	1·10	1·57
	277·16	395·94
Sulphuretted Hydrogen	0·77	1·10
Or in cubic inches per gallon at 60° F.		2·1

N.B.—The Sulphuretted Hydrogen was all, or nearly all in the free or uncombined state.

Examination for Organic Purity.

	In grains per gallon.	In parts per 100,000.
Saline Ammonia ...	0·081	0·1157
Albuminoid Ammonia	0·001	0·0014

This is an excellent mild aperient Sulphur Water, its aperient properties being chiefly due to the presence of magnesium chloride and sodium chloride, a combination of which forms one of the most effective and least drastic of saline aperients. The presence of sulphuretted hydrogen will render the water more efficient as an aperient, and will also prove beneficial in those numerous classes of cases where sulphur waters are prescribed, such as skin affection, disease of the liver, gout, plumbism, asthma, catarrhs, etc. I am of opinion that it is a very excellent water of its class, of great organic purity, and one that will prove highly beneficial to those taking it under medical advice.

Since the Spa Baths have been opened some hundreds of persons have availed themselves of the water, using it both internally and as baths. The cases that have been treated are chiefly those of Rheumatism and Skin Diseases, more especially Eczema, and of these a large proportion have derived considerable benefit from the water.

THE RIPON SPA BATHS.

Hours 7 a.m. to 7 p.m.

REVISED TARIFF.

			£	s.	d.
Sulphur Baths, 1st Class	...	...	0	2	6
" Course of 6	...	...	0	12	0
" Citizens	...	...	0	2	0
" Course of 6	...	...	0	10	0
" Course of 26...	...	...	1	15	0
" 2nd Class	...	...	0	1	6
" Course of 6	...	...	0	8	0
" Citizens	...	...	0	1	0
" Course of 6	...	...	0	5	0
" Course of 26...	...	...	0	17	6
Pine Bath	...	...	0	2	6
Needle Bath	...	...	0	1	6
Liver Pack—Mustard	...	...	0	1	6
Aix Douche and Massage	...	...	0	3	0
Nauheim Bath—Sulphur	...	...	0	2	6
" Plain Carbon	...	...	0	2	6
Schott's Exercises	...	...	0	2	6
Plombiere Treatment	...	...	0	2	6
" (with Tivoli Douche)	...	...	0	3	6
Massage, ¼ hour...	...	...	0	2	6
" ½ hour...	...	...	0	3	6
Electric Massage, ½ hour	...	...	0	3	6
Electric Sulphur Bath	...	...	0	3	0
Electric Plain Bath	...	...	0	2	6
Schnée 4 Cell Electric Bath	...	...	0	3	0
Vibratory Massage, 10 minutes	...	...	0	2	0
" " 20 minutes	...	...	0	3	0
D'Arsonval Currents, 10 minutes	...	...	0	2	2
" " 20 minutes	...	...	0	3	3
X Ray Localisation from	...	...	0	5	0
" Treatment, from	...	...	0	7	6
Ionisation, 10 minutes	...	...	0	2	6
" 20 "	...	...	0	3	6

SPA WATER.

SULPHUR WATER, Hot or Cold, 2d. per Glass.

10-oz. Bottles with closed stoppers delivered every morning between 7 and 8 to any address in the City, 1/- per week.

Extra Bottle to same address, 6d. per week.